

ABSTRACT

~~Provision of a preparing method for the production of a metal micropowder having a uniform diameter which is of value for preparation of precious metal electrodes.~~

~~A method for producing a metal micropowder having a uniform particle diameter which is performed sequentially by preparing a colloidal solution which contains two metal (e.g., Ag and Pd) salts having different oxidation-reduction potentials; bringing a reducing agent into contact with the colloidal solution, whereby first precipitating micro-particles of a metal (e.g., Ag) having a relatively low oxidation-reduction potential and then depositing a metal (e.g., Pd) having a relatively high oxidation-reduction potential on the micro-particles, to produce double layered particles composed of the micro-particles of a metal of a relatively low oxidation-reduction potential coated with a metal of a relatively high oxidation-reduction potential; and bringing the colloidal solution containing the double layered particles into contact with a third metal (e.g., Ag-Pd, Pt) salt and a reducing agent.~~

A metal micropowder having a uniform particle diameter is manufactured by preparing a colloidal solution in which two metal salts having different oxidation-reduction potentials are dissolved; bringing a reducing agent into contact with the colloidal solution, whereby first precipitating micro-particles of a metal having a relatively low oxidation-reduction potential and then depositing a metal having a relatively high oxidation-reduction potential on the micro-particles, to produce double layered particles composed of the micro-particles of a metal of a relatively low oxidation-reduction potential coated with a metal of a relatively high oxidation-reduction potential; and bringing the colloidal solution containing the double layered particles into contact with a third metal salt and a reducing agent.

Please replace the paragraph beginning at page 6, line 6, with the following amended paragraph:

--a first step of preparing an aqueous solution which contains two salts of [[meals]]
metals having oxidation-reduction potentials which differ from each other;--